

Senior Tutor Scheme

SCNC1111 & CCST5068

Rachel Lui

SCNC1111 Scientific Method & Reasoning

- First year compulsory course for BSc students
- 300 students per semester

CCST5068 Artificial Intelligence: Utopia or Dystopia?

- Common Core Course
- 120 students per year



Senior Tutors Scheme in the Faculty of Science

📅 January 23, 2017

You learn best when you teach another. That's why the teaching team of SCNC 1111 *Scientific Method and Reasoning*, which comprises Dr. Eddy Lam, Dr. Rachel Lui, Dr. William Cheung, implemented the **Senior Tutor Scheme** to encourage and facilitate undergraduate students in sharing their study experience. This scheme is a teaching innovation, applicable to all disciplines.

In the past semester, nine active students were chosen as senior tutors. They were in Year 3 or 4 with rich academic and cultural exchange experiences. The fact that the tutors come from different disciplines in Science also broadens and adds new perspectives to mathematics and statistics teaching.

The tutors contributed in all stages – from designing, preparing and conducting the tutorials, to marking and commenting on assignments. They did not come unprepared, weekly meetings were held by the teaching team as a training to ensure tutors had sufficient knowledge of pedagogy and class management. The teaching team oversaw each tutorial and provided assistance when necessary. Trainings on Moodle, the usage of Google forms and centralized email systems also facilitated smoother implementation.

The scheme's implementation in the past semester was undoubtedly a win-win case for everyone.

This is Rachel from SCNC1111, and I hope everything is fine with you during this special period of time! As you may have noticed, the SCNC1111 Teaching Team often recruits undergraduate students to be our Senior Tutors to hold tutorials, to help taking care of course administrative duties and develop course materials. We wonder if you are interested in being one of our Senior Tutors in the coming academic year 2022 - 23.

In more detail, the duties of a Senior Tutor includes

1. running 1 - 2 one-hour tutorial(s) each week
2. grading presentation, essay, etc. and offering feedback for students from your tutorial group(s)
3. offering more specific study guidance to students from your tutorial group(s), especially in relation to the group project
4. answering emails sent to the course email address, roughly being responsible for one day every week
5. developing or modifying course materials as the course requires.

Many course materials have already been developed, and we should be able to reuse them. Sometimes we would like to update them or make further improvements, and you will do so together with other fellow Senior Tutors. We would be bold to say that we offer sufficient training to prepare students to be a Senior Tutor. In your first semester as a Senior Tutor, you are very likely to team up with another fellow Senior Tutor to take care of 1 - 2 tutorial group(s). I will attend all tutorials to offer on-the-spot assistance to the Senior Tutors.

Faculty of Science offers some monetary reward for your work (about HKD 60 per hour). I agree this is not much, but being a Senior Tutor should be great in enriching your portfolio. I will also support your application to AHEA, a fellowship which proves that you are a good teacher, if you wish. Our past experience shows that each Senior Tutor spends around 5 hours per week for SCNC1111, and I hope this would not be too demanding to you.

I look forward to your favourable reply! Please also share with me your phone number so that I can create a whatsapp group with your fellows. Please feel free to ask if you have any questions!

- Work duties
- Benefits
(monetary,
presentation
skills, AFHEA,
out of
classroom
credits)

Support tutorials

Roles	Groups	Last access to course
Student	Boron, Boron-3, Group C	10 days 18 hours
Student	Carbon, Carbon-3, Group A	33 days 23 hours
Student	Argon, Argon-9, Group A	8 days 23 hours
Student	Boron, Boron-2, Group A	5 days
Student	Argon, Argon-4, Group D	8 days



Support tutorials

Group Fluorine [Tuesday 12:30 - 13:20]

Venue: K. K. Leung Building LG2/F 201 (KKLG201)

Time: Tuesday 12:30 - 13:20

Tutor: Annabella LEUNG & Heidi WONG

Course email: hku.scnc1111@gmail.com

Not available unless: You belong to **Fluorine** (hidden otherwise)

Forum for Group Fluorine

Feel free to discuss anything here! (e.g. project group formation / any doubt regarding the tutorial arrangement or materials)

Tutorial 1: Course introduction and Scientific Method (Jan 30)

Tutorial 1 Slides

Available from **30 January 2024, 1:20 PM** (hidden otherwise)

MS Equation Tools Practice Sheet

Tutorial 1 Reading Exercise

Mark as done

Available from **30 January 2024, 12:35 PM** (hidden otherwise)

Please work on the article assigned to you during the tutorial

Tutorial 2: Group Project I (Feb 6)

Tutorial 2 Slides





























Available from **6 February 2024, 1:20 PM** (hidden otherwise)

Project group forming

Please follow your tutor's instructions and enrol in your assigned group code.



Support tutorials

 Attendance	 me
 Group Project	 me
 Tutorial 1	 me
 Tutorial 2	 me
 Tutorial 3	 me
 Tutorial 4	 me
 Tutorial 5	 me
 Tutorial 6	 me
 Email Duty 	 me
 Important Information 2023 - 24 Semester 1 	 me
 MasterMarksheet_202324_Sem1 	 me
 Project Plan Grading.pptx 	 me




Support Assessments

Question 14

Not yet answered

Marked out of 1.00

 [Flag question](#)

 [Edit question](#)


Find $\int 4\sqrt[3]{x}dx$.

Select one:

- a. $\frac{3}{4}x^{\frac{4}{3}} + C$
- b. $3x^{\frac{4}{3}} + C$
- c. $\frac{4}{3}x^{\frac{4}{3}} + C$
- d. $-6x^{\frac{-2}{3}} + C$

Support Assessments

Video tutorials on group project

 How to make a good project

 Graph Plotting with Geogebra

 Regression - concepts and pitfalls

 Regression with Geogebra


 Geogebra regression data file

You may want to practise by following the video - so here is the data file.

 Regression with Excel

 Excel regression data file

You may want to practise by following the video - so here is the data file.

 Using trendlines in your group project

 Using trendlines in your group project

 Word to PDF Conversion



Scientific Method and Reasoning SCNC1111

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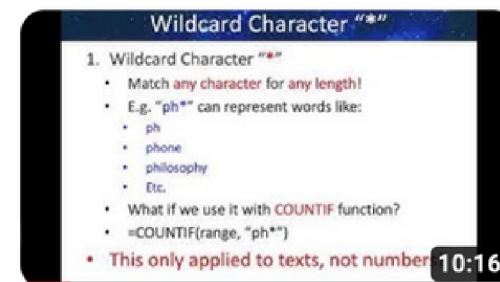
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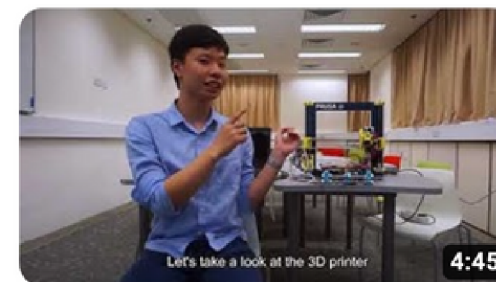
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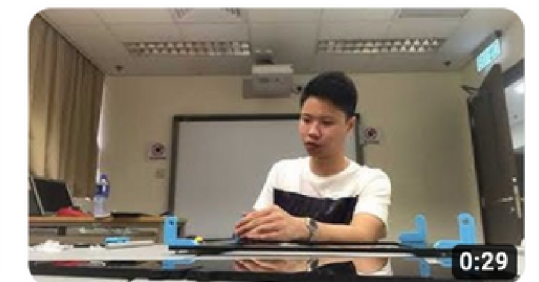
HKU Arduino 3D Printer Project

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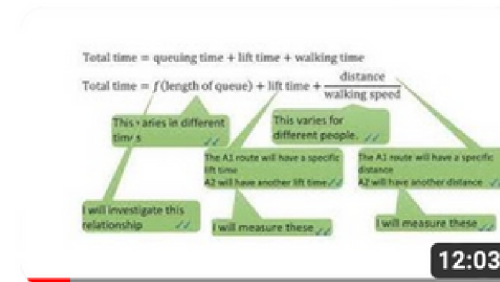
SCNC1111 Flipping the Classroom

132 views · 4 years ago



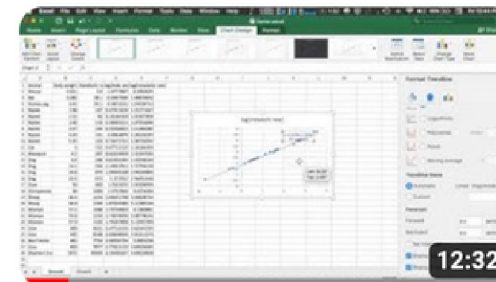
PRUSA i3 Rework Part 1 -- the Frame

79 views · 5 years ago



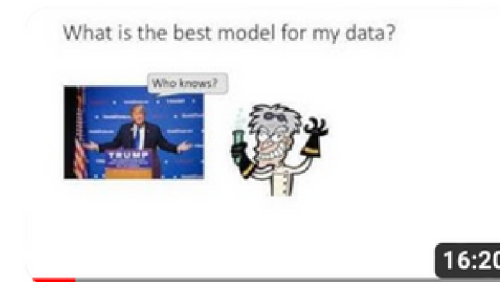
how to make a good project

2.6K views · 6 years ago



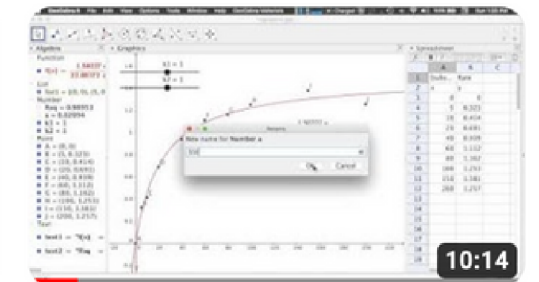
excel regression

1.8K views · 6 years ago



Regression

1.6K views · 6 years ago



Regression with Geogebra

1.4K views · 6 years ago

Administrative support

Fw: Worry about reg SCNC1111 tutorial - Dear Florence, Thank you for letting us know your situation. We will try our best t... 23 Jan

Fw: Request for tutorial swapping - Dear Lorenz, Thank you for letting us know your situation. We will try our best to help ... 23 Jan

Apologies and seeking for extra tutorial vacancy - Dear tutors, I have checked the tutorial sign-up app, but I'm sorry to in... 23 Jan

Fw: tutorial registration of scnc 1111 - Dear Ms. Wong, Thank you for your understanding. This is my weekly schedule. Sent.. 22 Jan

Unable to check answers of the preclass questions 2-4 - Dear Jacky, Typically, we only inform students whether their ch... 23 Jan

Fw: Enquiry for tutorial 1 - Dear Heidi, Sure, the tutorial for CCGL would be a one-time thing, so I believed that I can atten... 23 Jan

Questions on Scientific Method - Dear Student, Thank you for your questions. To answer your first point, there are 3 type... 23 Jan

Drop class - Dear Teaching Support Team, I hope you are doing well. I am writing this email to express my gratitude for yo... 23 Jan

Hesitation on the deadline for reading quiz - Thanks :) Get Outlook for iOS From: Scientific Method and Reasoning SCNC... 23 Jan

Tutorial Registration Start Time - Dear Cleo, Please refer to the email sent by Dr. Lui yesterday. There is detail about tutori... 23 Jan

Enquiries about the tutorial sign up in SCNC1111 - Thank you for your kind information and reply, I will try my best to reloa... 23 Jan

Fw: Question regarding tutorial registration - Dear Joshua, We understand your concern. For now, you could try to ask q... 23 Jan

Issues regarding tutorial registration - Dear Anthony, Thank you for letting us know your situation. You may first register t... 23 Jan

Tutorial - Dear JinHua, Thanks for sending us your page. There's some delay in the time of course enrollment and the tim... 23 Jan



Administrative support

Email Duty ☆ 📁 ☁























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	A	B	C	D	E	F	G	H	I	J	K	L
1	Sun	Mon	Tue	Wed	Thu	Fri	Sat					
2											Tutor	Count
3		1	2	3	4	5	6	January			Thomas	16
4									Billy	16		
5	7	8	9	10	11	12	13		Annabella	15		
6									Brandon	16		
7	14	15	16	17	18	19	20		Heidi	17		
8			Heidi	Thomas	Billy	Annabella	Brandon					
9	21	22	23	24	25	26	27					
10		Heidi	Thomas	Billy	Annabella	Brandon	Heidi					
11	28	29	30	31								
12		Thomas										
13					1	2	3	February				
14					Billy	Annabella	Brandon					
15	4	5	6	7	8	9	10					
16		Heidi	Thomas	Billy	Annabella	Brandon						
17	11	12	13	14	15	16	17					
18				Heidi	Thomas	Billy	Annabella					
19	18	19	20	21	22	23	24					
20		Brandon	Heidi	Thomas	Billy	Annabella	Brandon					
21	25	26	27	28	29							
22		Heidi	Thomas	Billy	Annabella							
23						1	2	March				
24						Brandon	Heidi					
25	3	4	5	6	7	8	9					
26		Thomas	Billy	Annabella	Brandon	Heidi	Thomas					
27	10	11	12	13	14	15	16					
28		Billy	Annabella	Brandon	Heidi	Thomas	Billy					
29	17	18	19	20	21	22	23					
30		Annabella	Brandon	Heidi	Thomas	Billy	Annabella					




















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 2021 - 22 SCNC1111 Senior Tutors	 me	7 Sept 2023 me
 2022 - 23 SCNC1111 Senior Tutors	 me	7 Sept 2023 me
 2023 - 24 SCNC1111 Senior Tutors	 me	7 Sept 2023 me
 Exemption	 me	7 Sept 2023 me
 Introduction to AI	 me	7 Sept 2023 me
 Lecture Recordings	 me	7 Sept 2023 me
 Miscellaneous	 me	7 Sept 2023 me
 Past papers	 me	7 Sept 2023 me
 Supplementary exam	 me	7 Sept 2023 me


































Administrative support

My Drive > 2023 - 24 SCNC1111 Seni... 












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Name ↑	Owner	Last modified ▾
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 Presentation Marksheet Generator	 me	27 Jun 2023 me
 Remarks for tutorials	 me	10 Sept 2023 me
 Semester 1	 me	27 Jun 2023 me
 Semester 2	 me	27 Jun 2023 me
 Moodle and first three tutorials.mp4 	 me	27 Jun 2023 me
 SCNC1111 Adaptive Learning System Survey 	 me	30 Jul 2023 me
 Working Hours 	 me	5 Jan 2024 me

Administrative support

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 Essay/PPT Consent Email 	 me	27 Jun 2023 me
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 Online Tutorial Email 	 me	27 Jun 2023 me
 Project Plan Feedback Checking 	 me	27 Jun 2023 me
 Survey Reminder Email 	 me	27 Jun 2023 me
 Tutorial 1 Email 	 me	27 Jun 2023 me
 Tutorial 2 Email 	 me	24 Sept 2023 me
 Tutorial 2 Follow-up Email 	 me	17 Jul 2023 me
 Tutorial 3 Email 	 me	17 Jul 2023 me

Marksheet Generator

Name	↑
 For Practice-Testing	
 code2.exe	
 code2.py	
 marksheet.tex	
 readme (edited).txt	
 readme.txt	

Tutorial Group Fluorine

Title: <i>Estimate the Demand of Smartphones in Hong Kong for the Next Decade</i>						
Group Fluorine-1	Content and critical analysis (12)	Organization (2)	Communication (Slides) (2)	Communication (Fluency) (2)	Group Dynamic (2)	Total (20)
<input type="checkbox"/> I [REDACTED] 303370000						
<input type="checkbox"/> I [REDACTED] 303370000	Comment					
<input type="checkbox"/> I [REDACTED] 303370440	Time taken: 					
<input type="checkbox"/> T [REDACTED] 303370000						
<input type="checkbox"/> V [REDACTED] 303382080						

Title: <i>What strategies should farmers in the Sahel adopt to raise food supply?</i>						
Group Fluorine-2	Content and critical analysis (12)	Organization (2)	Communication (Slides) (2)	Communication (Fluency) (2)	Group Dynamic (2)	Total (20)
<input type="checkbox"/> I [REDACTED] 303370000						
<input type="checkbox"/> I [REDACTED] 303370000	Comment					
<input type="checkbox"/> P [REDACTED] 303370000	Time taken: 					
<input type="checkbox"/> V [REDACTED] 303370000						
<input type="checkbox"/> V [REDACTED] 303370000						

AFHEA



SCNC1111 Scientific Method and Reasoning Senior Tutor Scheme

Course Coordinator: Dr. Rachel Lui

Background

The science foundation course SCNC1111 *Scientific Method and Reasoning* aims at teaching science students how to think logically and quantitatively. Tutorial is an integral part of the course. In order to encourage and facilitate undergraduate students in sharing their study experience, senior science students from different disciplines were selected as senior tutors. These senior tutors are active and outgoing students in the Faculty of Science. They participated in different academic and cultural exchange activities in Hong Kong and overseas. The teaching team believes that their experiences would be useful for our first-year students, and the senior tutors can build a closer relationship with our students as well as working as mentors to them. Their different disciplinary expertise also enriches the teaching materials on how mathematics and statistics can be applied in various fields of science.

Implementation

1. Ample teaching training for the Senior Tutors:
 - a. The Senior Tutors have diverse background with different majors. On the one hand, this is an advantage to allow for a variety of teaching materials; on the other hand, some guidance is needed to ensure sufficient consistency among different tutors.
 - b. The Senior Tutors would be able to understand our students better, and in turn our students may feel more comfortable to approach them. On the other hand the Senior Tutors may need more suggestions on pedagogy and class management.

To ensure the smooth implementation of this scheme, weekly meetings between the Teaching Team and the Senior Tutors were held. In addition, we were glad to have invited Dr. Cecilia Chan from CETL to offer a seminar on teaching.

2. Facilitating the Use of Technology for Teaching
 - a. Moodle training is offered for the students so that they are familiar with the Learning Management System.
 - b. In order to encourage student participation in the tutorials, Google form and other online resources were incorporated.
3. The Teaching Team attended every tutorial to ensure the smooth running and offer assistance if necessary.
4. A centralized email is used so that every teacher/tutor took turns to reply emails from students. Without exhausting any one of us, a timely response is given to every single student.



SCNC1111

Senior Tutor Scheme

WANG, Issam (Sam), BSc(QFin) II

The Experience

as a student

SCNC1111

The Experience

as a senior tutor

The Benefits

as a senior tutor